How to change front lower arm on **BMW Z8 Roadster (E52)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
BMW Z8 Roadster (E52) 4.9

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 5 Saloon (E39) 520i 2.0

REPLACEMENT: FRONT LOWER ARM – BMW Z8 ROADSTER (E52). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Drive socket # 16
- Drive socket # 18
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: front lower arm – BMW Z8 Roadster (E52). AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

REPLACEMENT: FRONT LOWER ARM – BMW Z8 ROADSTER (E52). USE THE FOLLOWING PROCEDURE:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the front of the car and secure on supports.

4

Unscrew the wheel bolts.



Replacement: front lower arm – BMW Z8 Roadster (E52). Tip from AUTODOC:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5

Remove the wheel.



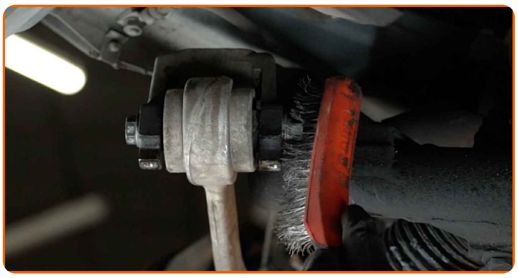
6

Remove the control arm cover.



7

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



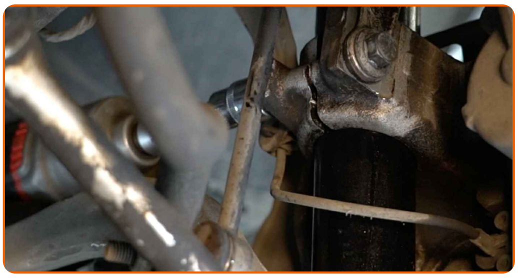
8 Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



9 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



10 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a ratchet wrench.



11 Unscrew the front arm fastener. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



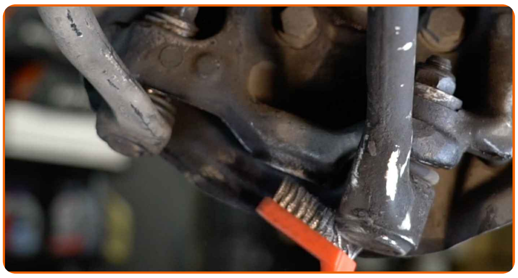
12 Remove the front fastener of the control arm.



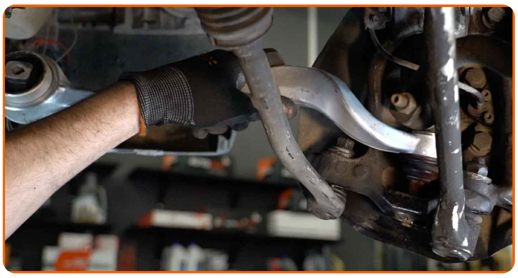
13 Remove the arm.



14 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



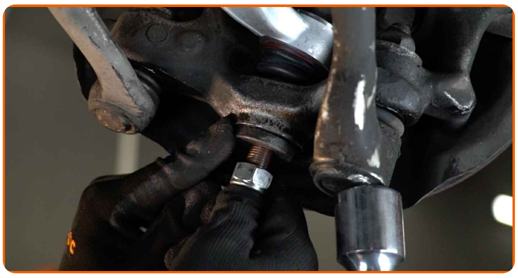
15 Install a new arm.



AUTODOC recommends:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

16 Connect the ball joint to the steering knuckle.



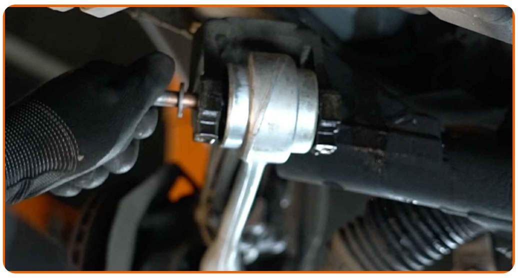
17 Screw the fasteners of the ball joint. Use a drive socket #22. Use a ratchet wrench.



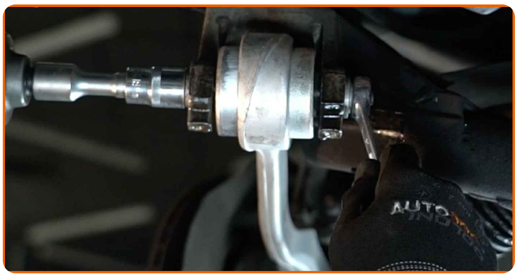
18 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



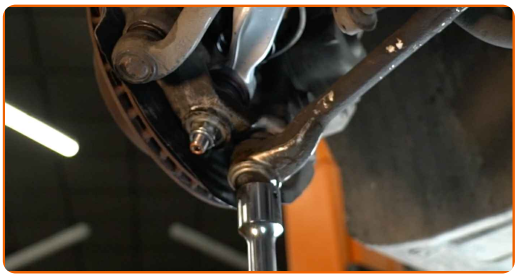
19 Install the front fastener of the arm.



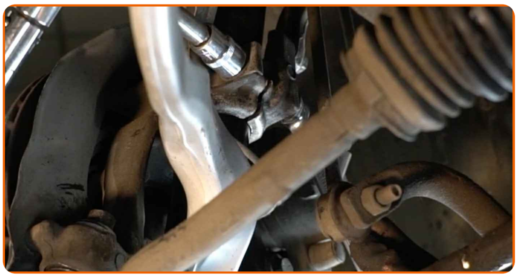
20 Screw the front arm fastener. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



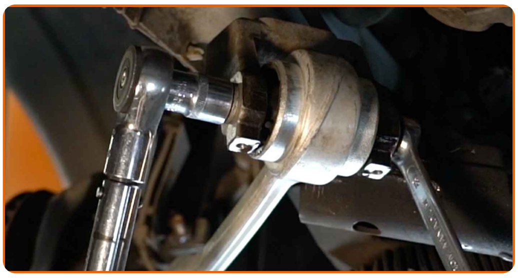
21 Support the arm. Use a hydraulic transmission jack.



22 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a torque wrench. Tighten it to 81 Nm torque.



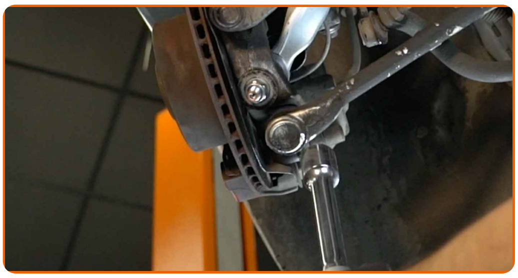
23 Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



24 Tighten the fasteners of the ball joint. Use a drive socket #22. Use a torque wrench. Tighten it to 80 nm torque.



25 Remove the support from under the arm.



AUTODOC recommends:

- Replacement: front lower arm – BMW Z8 Roadster (E52). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

26 Install the control arm cover.



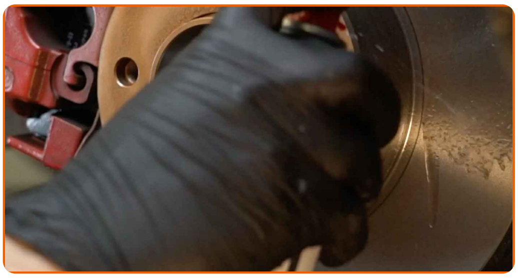
27 Treat all joints of the arm. Treat the shock strut fasteners. Use copper grease.



28 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



29 Clean the brake disk surface. Use a brake cleaner.



Replacement: front lower arm – BMW Z8 Roadster (E52). AUTODOC recommends:

- After applying the spray, wait a few minutes.

30 Install the wheel.



Replacement: front lower arm – BMW Z8 Roadster (E52). Professionals recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

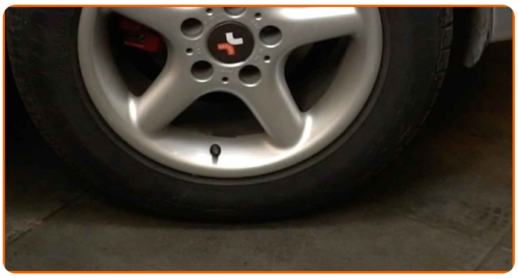
31 Screw in the wheel bolts. Use wheel impact socket #17.



32 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



33 Remove the jacks and chocks.



WELL DONE!

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